

FIG. 1A

GTGTCTGGGC GGAGCAAAAT ATGTTCCAAT TGTGTTTCT TTTGATAAGAT TCTTTCAACA 60  
GACAGTCTT TCTTAGGCATC TTCAATTTC TTTATTTGT TGACTTGCAT ATTTTCATT  
ACAGGGCTGCA ATGGTGACAC TTCCATGGTG ACGGTGGTGA AGGG 120  
164

FIG. 1B

TGAAAGATG TATGTCCAG CTCTCATATT TGGACAGCTC CTAACTCTA GTAACTATGA 60  
TGATGATGAA AAGAAAGTGA CAGGGTGTG AAATGGCTAT GGAGCCAAAT TGTGTAACAT 120  
ATTCAGTACC AAATTACTG TGGAAACAGC CAGTAGAGAA TACAAGAAAA TGTTCAAAACA 180  
GACATGGATG GATAATATGG GAAGAGCTGG TGA 213

FIG. 1C

GCCCCATTGGT CAGTTTGGTA CCAGGGCTACA TGGTGGCAAG GATTCTGCTA GTCCACCGATA 60  
CATCTTTACA ATGCTCAGCT CTTTGGCTCG ATTGTTATT CCACCAAAAG ATGATCACAC 120  
GTTGAAGTTT TTATATGATG ACAACCAGCG TGTGTGAGCCT GAATGGTACA TTCCCTATTAT 180  
T 181

FIG. 1D

TGAATGGTAC ATTCCATTAA TTCCCATGGT GCTGATAAAT GGTGCTGAAG GAATCGGTAC 60  
TGGGTGGTCC TGCAGAAATCC CCAACTTGA TGTGCGTGAA ATTGTAATAACATCAGGCG 120  
TTTGATGGAT GGAGAAGAAC CTTGCCAAT GCTTCCAAGT TACAAGAACT TCAAGGGTAC 180  
TATGAGAA CTGGCTCCAA ATCAATATGT GATTAGGGT GAAG 224

**FIG. 1E**

TGCGTGAAT TGTAAATAAC ATCAGGGCGTT TGATGGATGG AGAAGAACCT TTGCCAATGC 60  
TTCCAAGTTA CAAGAACTTC AAGGGTACTA TTGAAGAACT GGCTCCAAT CAATATGTGA 120  
TTAGTGGTGA AGTAGCTATT CTTAATTCTA CAACCATTGA AATCTCAGAG CTTCCCGTCA 180  
GAACATGGAC CCAGACATAC AAAGAACAAAG TTCTAGAACC CATGTTGAAT GGCACCGAGA 240  
AGACACCTCC TCTCATACA GACTATAGGG AATACCATAAC AGATAACCACT GTGAAATTG 300  
TTGTGAAGAT GACTGAAGAA AAACCTGGCA 329

FIG. 1F

CACTCTTTC AGTTTCCTT TCGTTGTCAC TCTCTCATT TTCTTCTTCA TCTGGAACCT 60  
TTTGCTGGC TTCTTCAG GCCTTCACAG GATCCGAATC ATATCCCCTC TGAATCAGAA 120  
CTTAAATTAA TTCTTTCTTA GGCTTATT CAATGATTAT TTTGCCATCT ATTTCTCTA 180  
AGATAAAGCG AGCC 194

FIG. 1G

TCTGCCTCTG CTTTCATTTC TATGGTTATT CGTGGAAATGA CTCCTTGACC ACGCGGAGAA 60  
GGCAAAACTT CAGCCATTTC TGTTTTTC CCCTTGGCCT TCCCCCTTT CCCAGGAAGT 120  
CCGACTTGTGTT CATCTTGTGTT TTCCCTTGGCT TCAACAGCCT CCAATTCTTC AATAAATGTA 180  
GCCAAGTCTT CTTTCCACAA ATCTGTA 206

FIG. 1H

GACACGACAC TTTTCTGTGG TTTCAGTTCT TTGTTACTAA GTTTTGGGA AGTTTTGGTC 60  
TTAGGTGGAC TAGCATCTGA TGGGACAAA TCTTCATCAT CAGTTTTTC ATCAAAATCT 120  
GAGAAATCTT CATCTGAATC CAAATCCATT GTGAATTTG TTTTTGTTGC TGCTCTCCGT 180  
GGCTCTGTTC CTCG 194

FIG. II

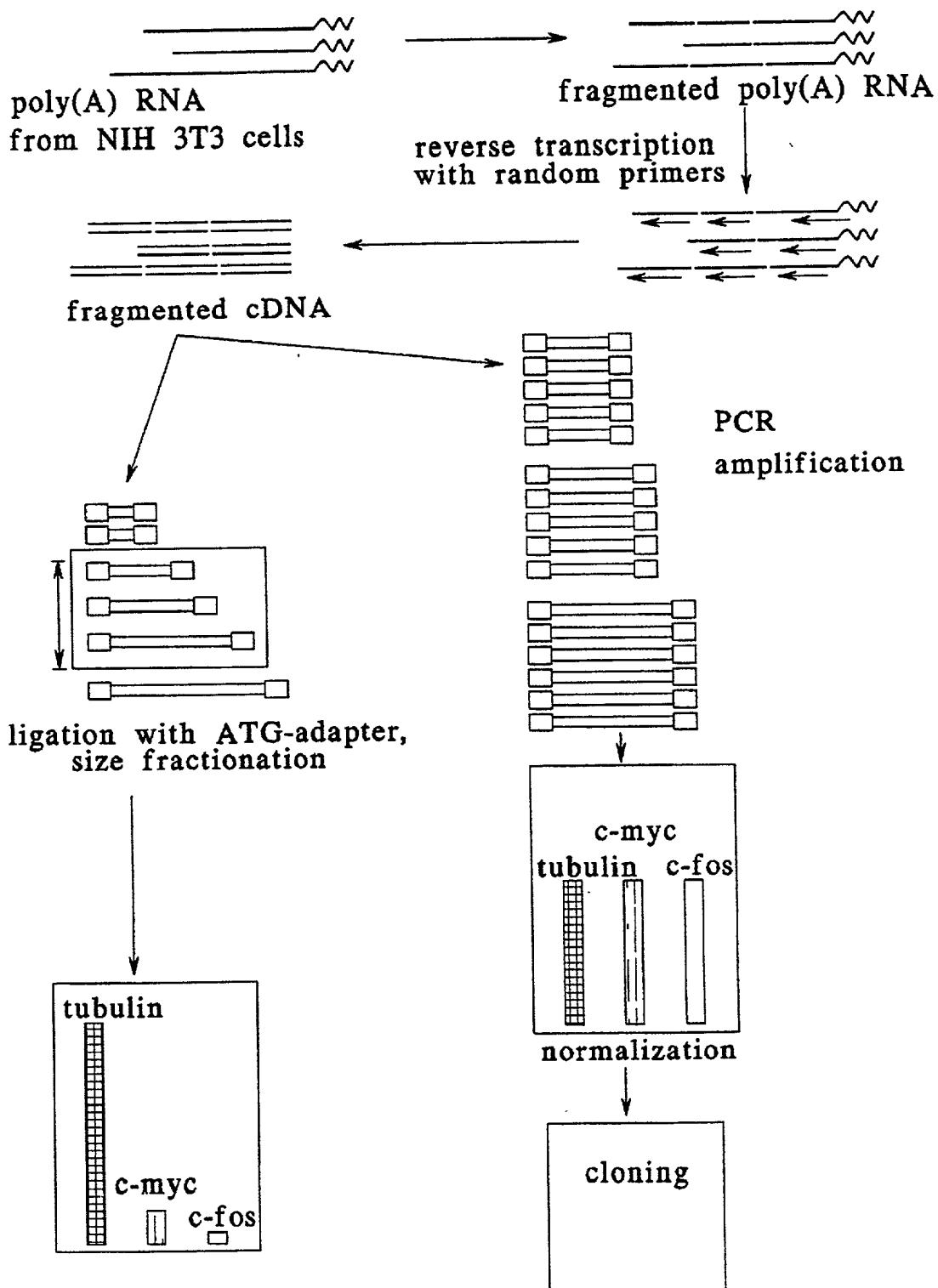
CTGAAACCAC AGAAAAGTGT CGTGTAGAC CTTGAAGCTG ATGATGTTAA GGGCAGTGTAA 60  
CCACTGTCTT CAAGCCCTCC TGCTACACAT TTCCAGATG AAACTGAAAT TACAAACCCA 120  
GTTCCCTAAA AGAATGTGAC AGTGAAGAAG ACAGCAGCAA AAAGTCAGTC TTCCACCTCC 180  
ACTACCGGTG CCAAAAAAAG GGCTGCCCA AAAGGAACTA AAAGGGATCC AGCTTTGAAT 240  
TC

FIG. 1J

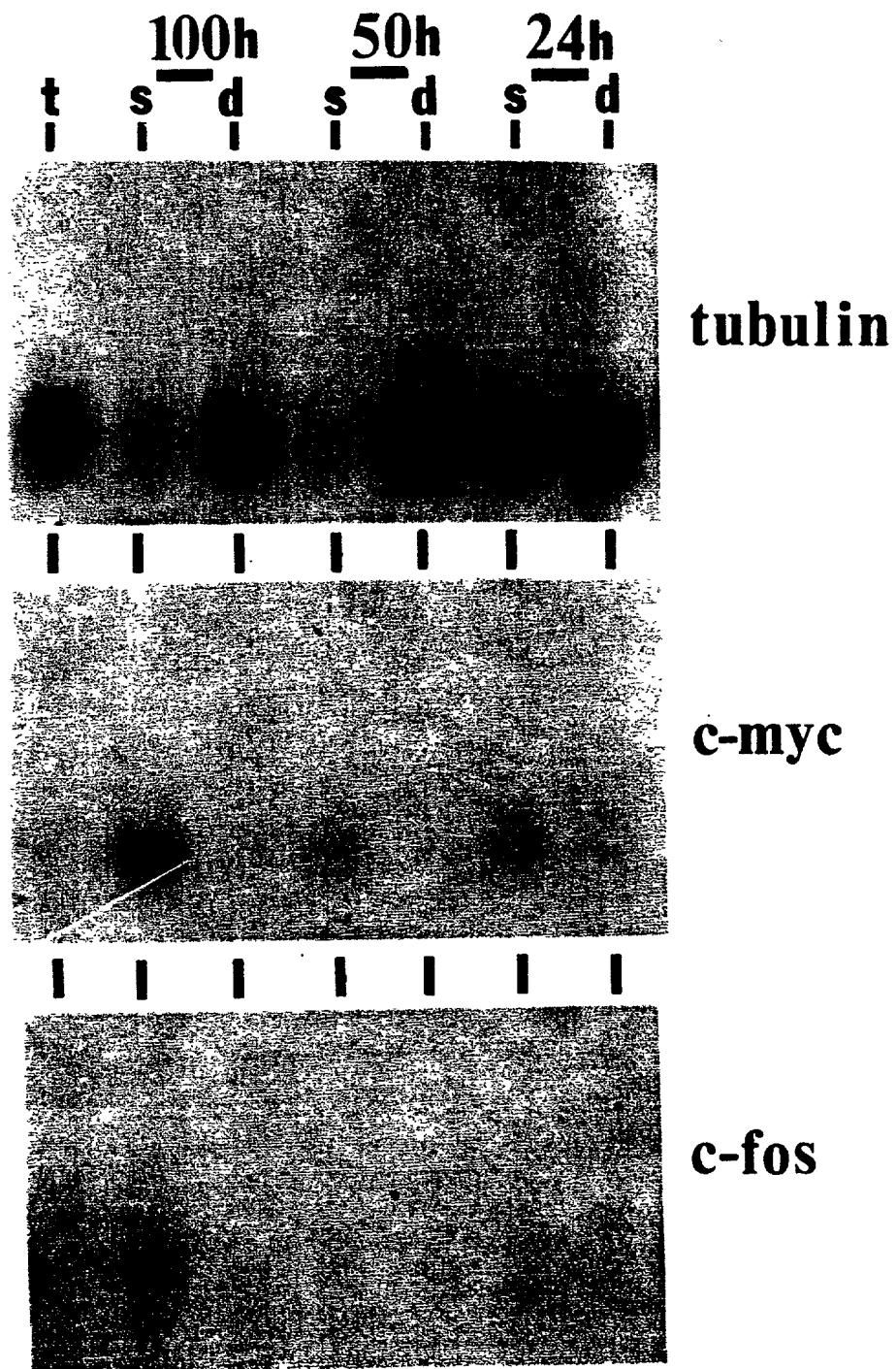
AATTCAAAGC TGGATCCCTT TTAGTTCCTT TTGGGGCAGC CCTTTTTTG GCACCGGTAG 60  
TGGAGGTGGA AGACTGACTT TTTGCTGCTG TCTTCTTCAC TGTCACTTC TTTTTAGGAA 120  
CTGGGTTTGT AATTCAGTT TCATCTGGAA AATGTGTAGC AGGAGGGCTT GAAGACAGTG 180  
GTACACTGCC CTTAACATCA TCAGCTTCAA GGTCTGACAC 220

**FIG. 2A**

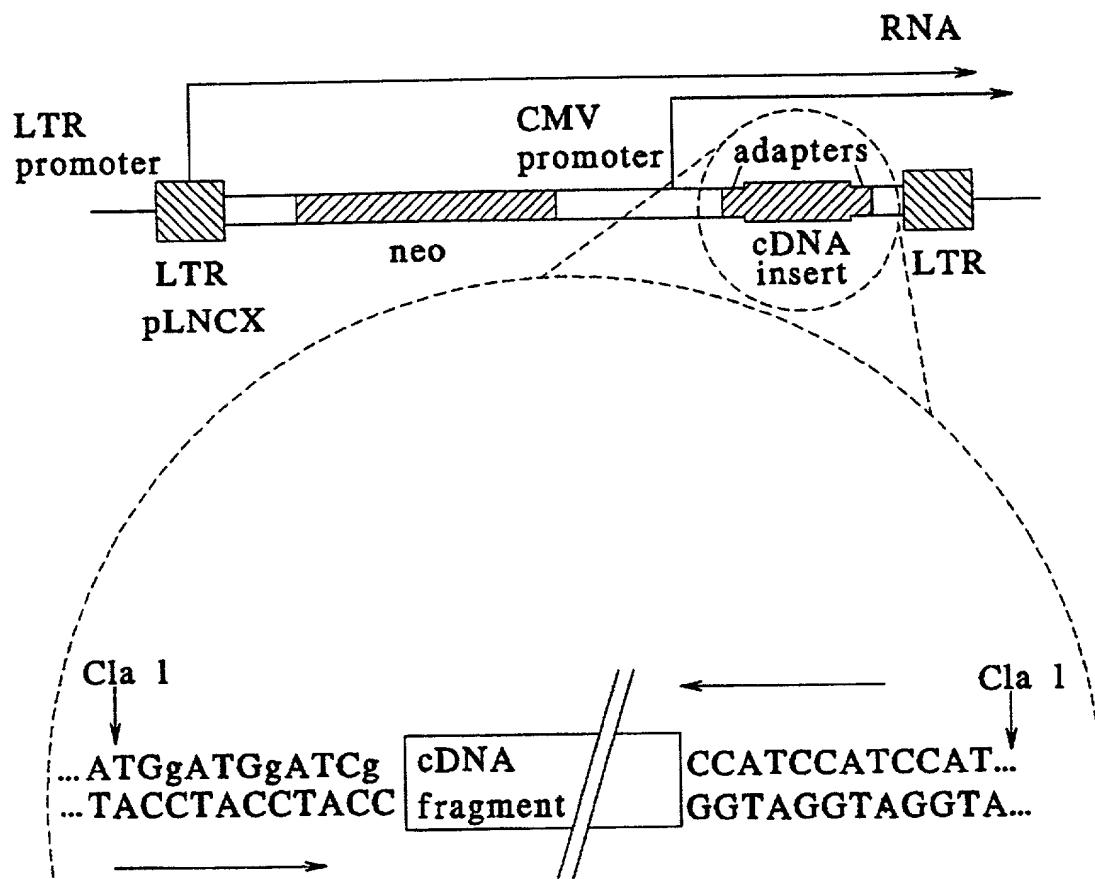
RANDOM FRAGMENTATION



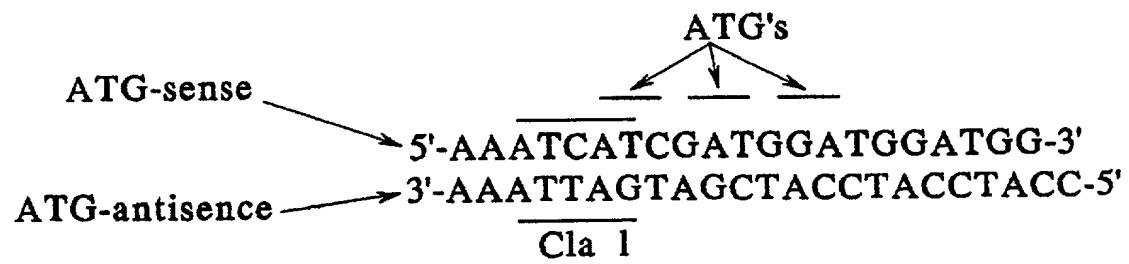
**Figure 2B**



**FIG. 3A**

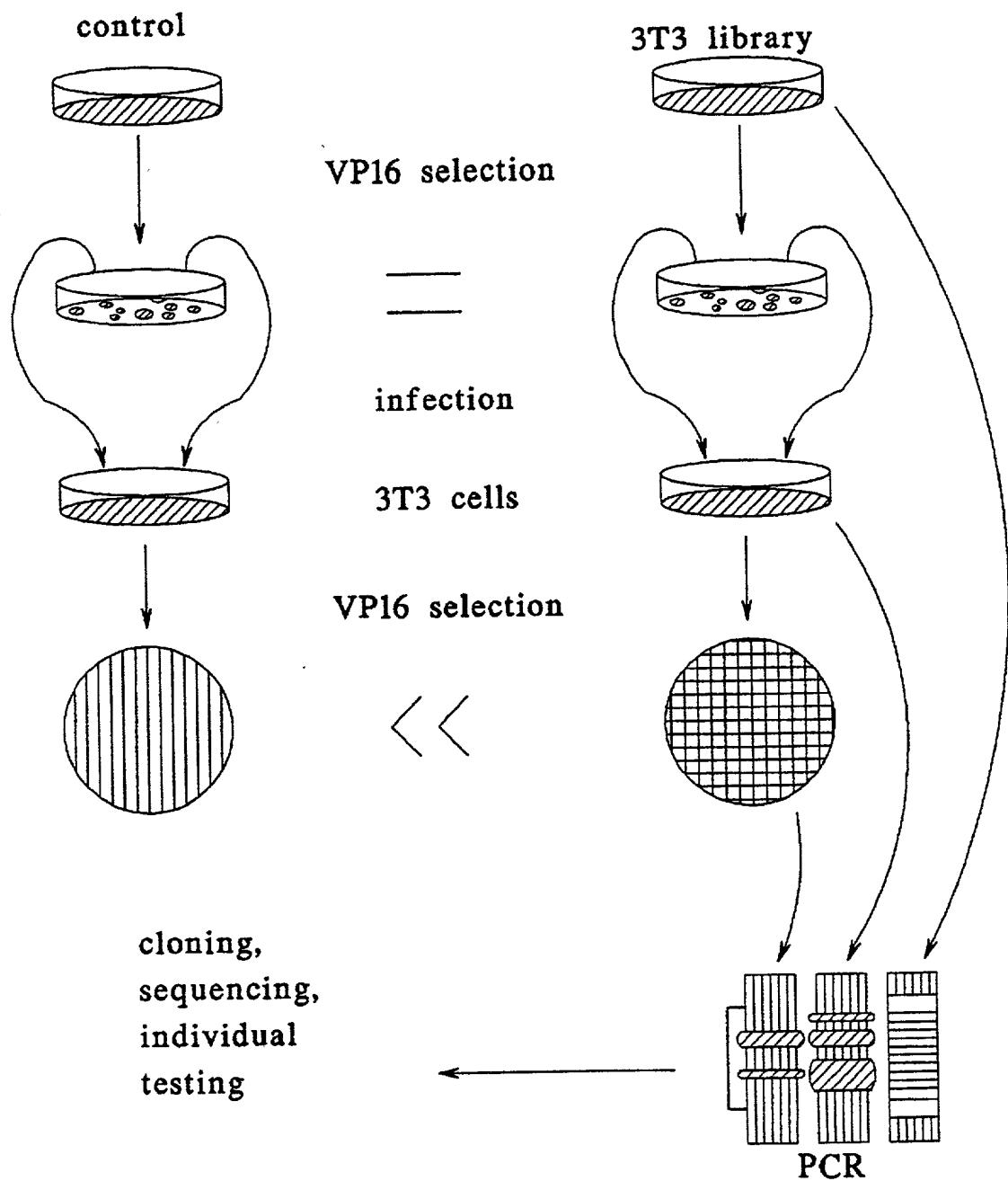


**FIG. 3B**



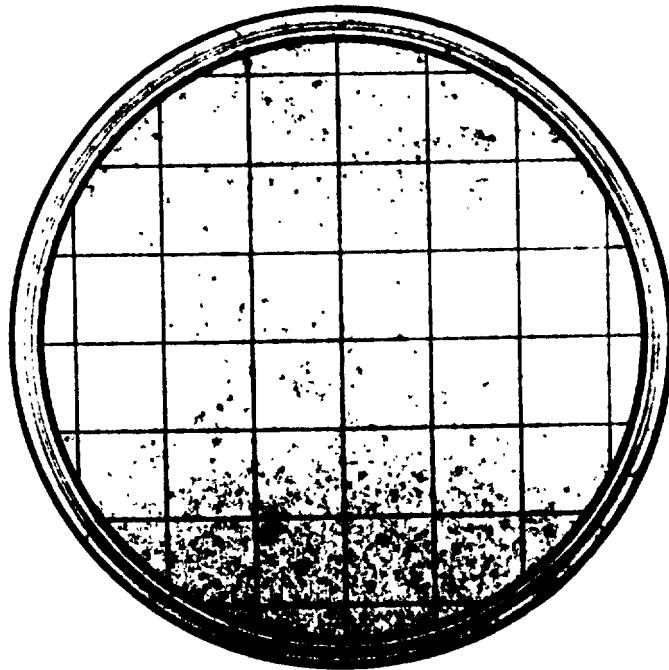
**FIG. 4**

**Mixture of Eco and Amphi  
packaging cells**

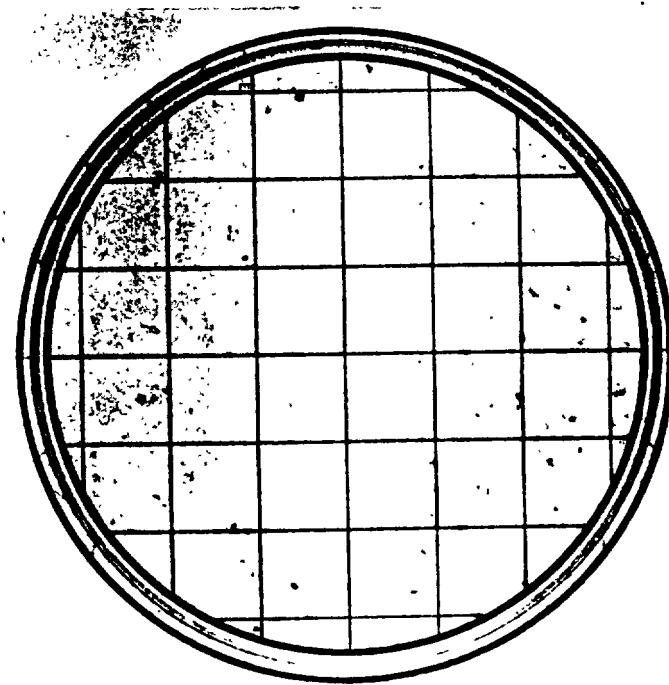


SCANNED, # 20

Fig 5A



infection



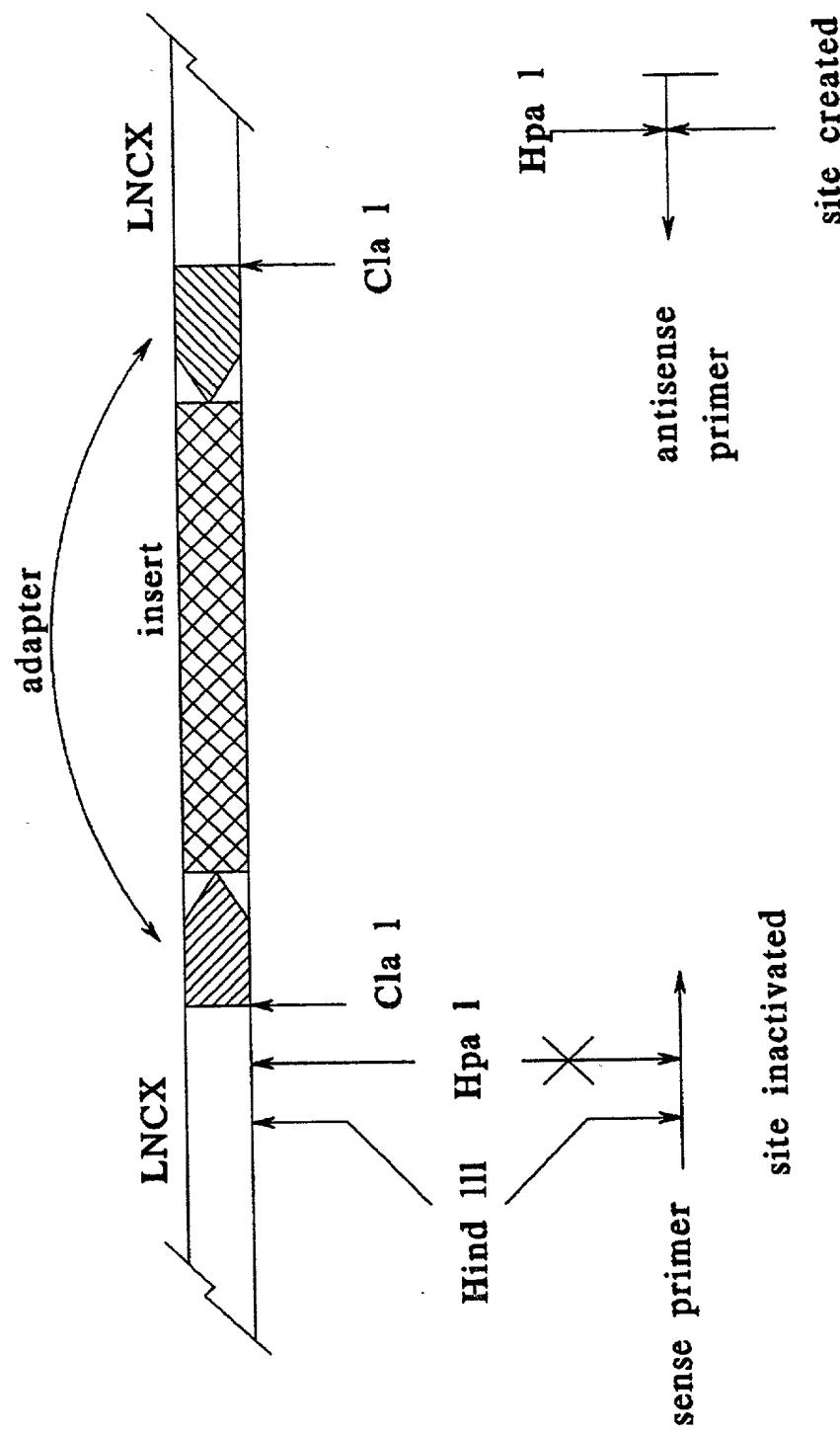
control

# VP16 selection

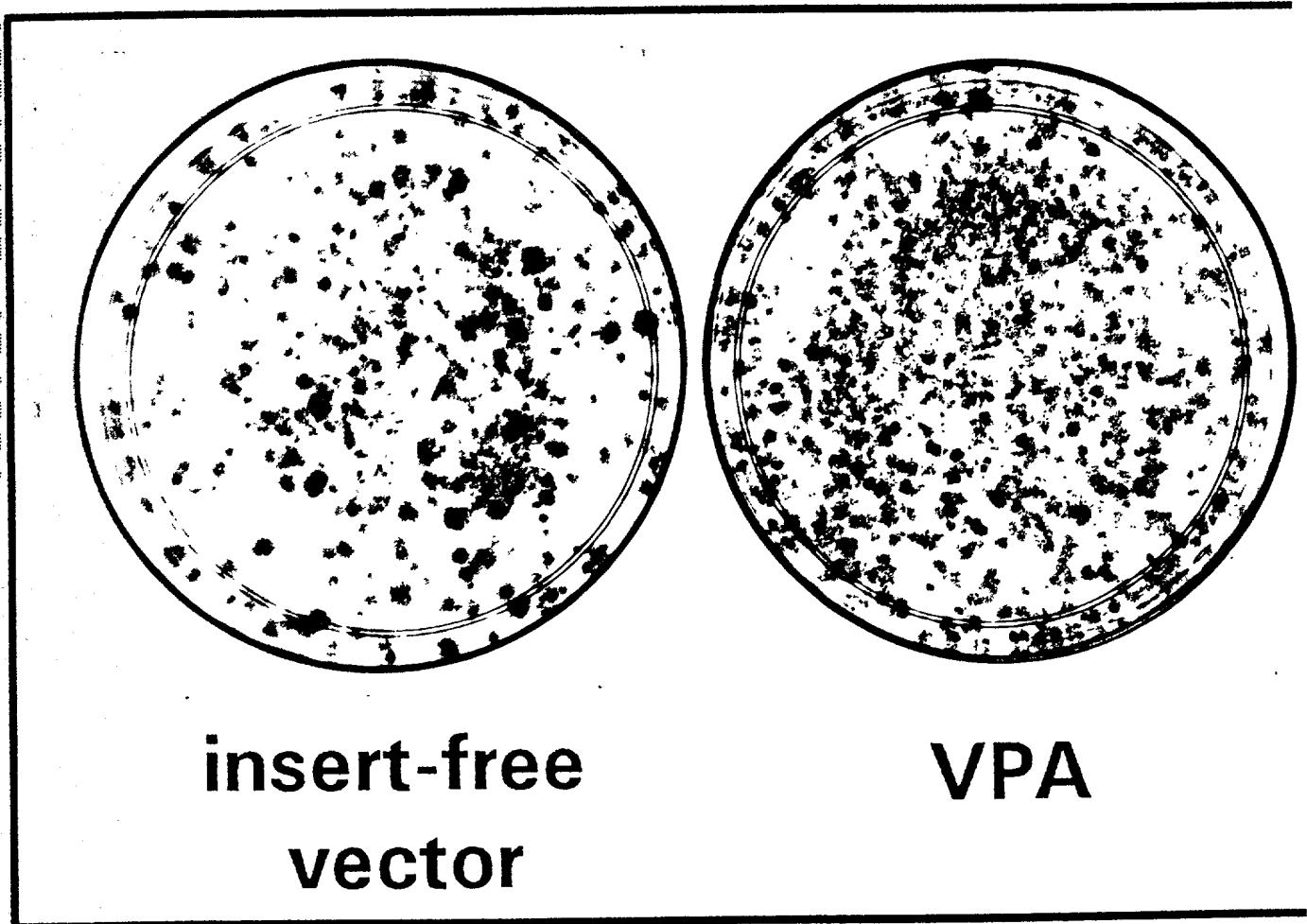


Fig. 5B

FIG. 6



# Figure 7A



# Figure 7B

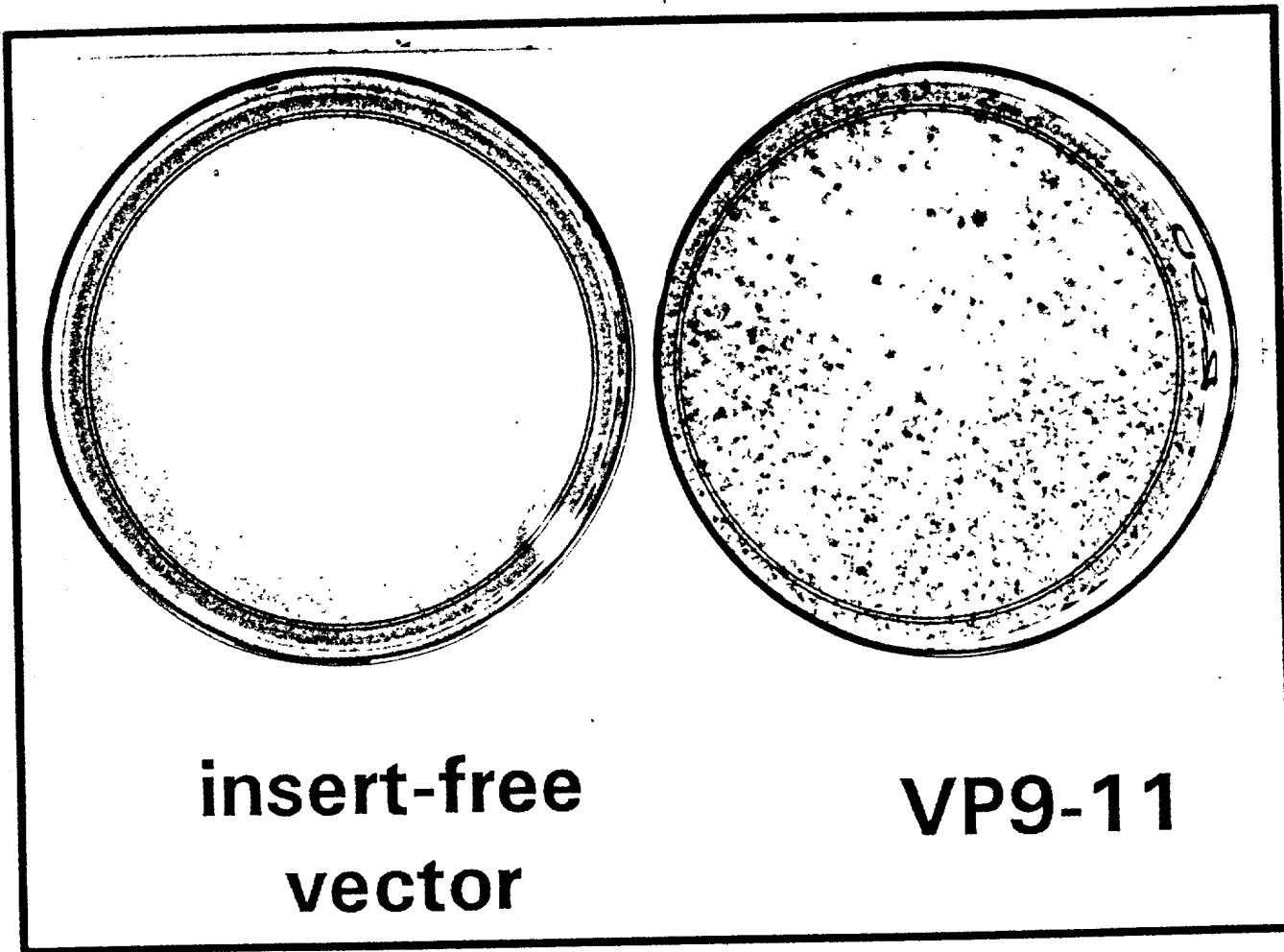
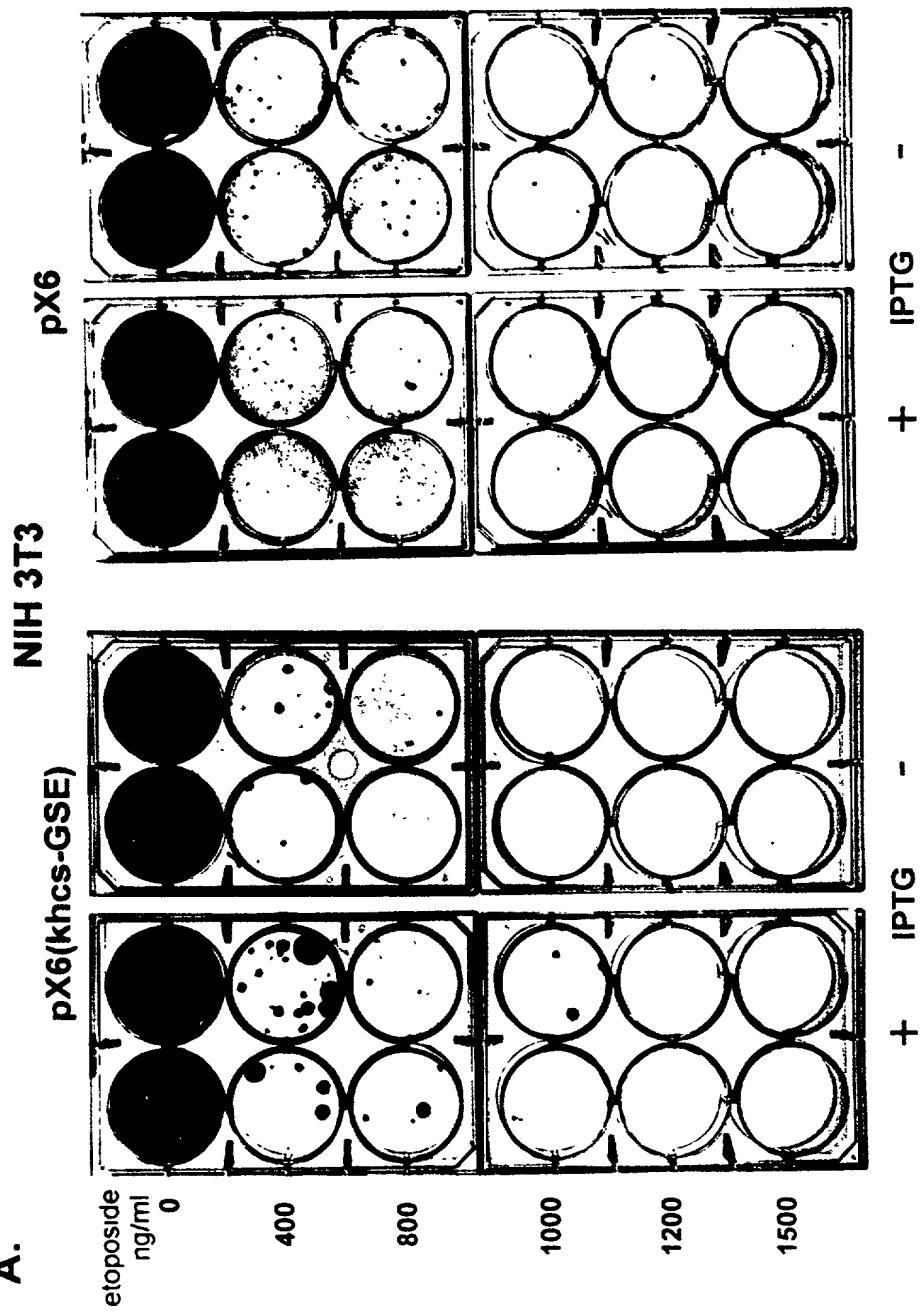


Fig 8A

A.



**FIG. 8B**

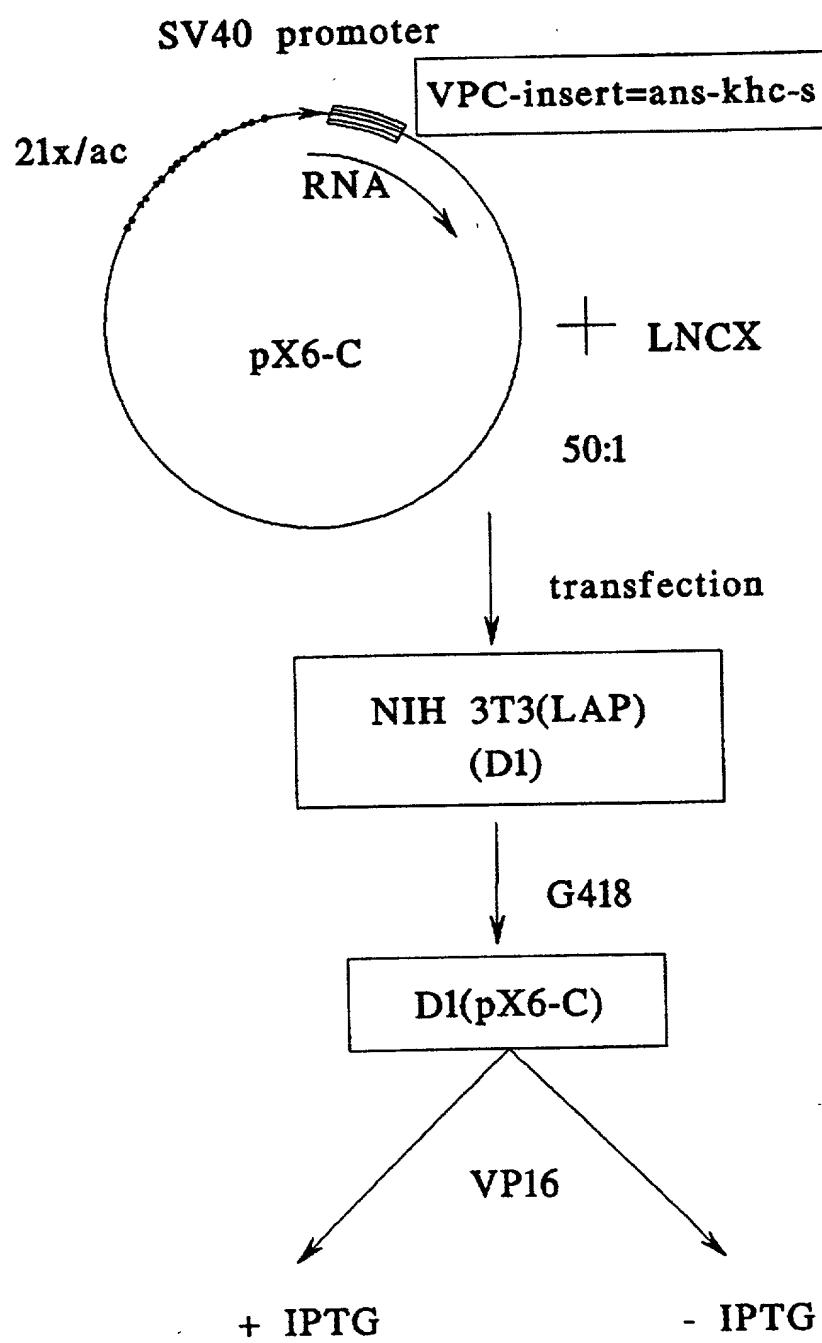


FIG. 9

CTTGATCCCT TCTGGTTGAT GCCAGGAAGCT CTTCCGTGATC CAGGCATTGAT ATCTTCAATT 60  
TCTCTACCAA TTGGCTTTGT TGGTTAACCT CTTCATCCTT GTCATCAAGT TGTTTATACA 120  
ATTAGCAAG TTCTCTTCA CACTTCTTC TTTCAGCATC GGTAAAACTA CCAGGCCATTC 180  
CGACTGCAGC AGCTGGTTA TCACTGGTA TAGCAATATC TTTATCCGCT GTGAAGGGCTT 240  
CCAAATTAGC TTCTCTTTG TCAAACTGCT CATCAATAGG CACTGTCTCC CCGTTACGCC 300  
AACGGTTAG CTCGTTTCC AGCCACT 327.

FIG. 10

CCGACCGGG A CGGGGAGAAG GAGCGGGAGC GGGAGCAGGC GAGGAAGGAG CGGGAGGAAGG 60  
AGCTGGAGCG CGACGGAGA AGGAACGGGA GCGCGAGCTG GAGCGGCAGC GGGAGGCAGCG 120  
GGCGAGGGAG AAGGGAGCTGC TGGCTGCCAA GGCCTTAGAG CCCACCCACCT TCCCTGCCTGT 180  
GGCCGAGGCTG CACGGACTCC GAGGTACAG CACGGAGGAG CGGGCCAAAGC CCTCGGGAGCA 240  
GCTGACCCCA

FIG. 11

CTCAGAGGTG ATCCCTCTCGG AGTCCGAGCTC AGGAGAAGGA GTCCCCCTCT TTGAGACTTG 60  
GATGCAGACC TGCATGTCGG AGGAGGGCAA GATTTGAAC CCTGACCATC CCTGCTTCCG 120  
CCCTGACTCC ACCGAAGTCG AGTCCTTGTT GGCCCTGCTC ACAACTCTT CAGAGATGAA 180  
GCTAGTACAG ATGAAGTAGC ACGAGGCC 208

FIG. 12A

CGACAAACAT CATCTGGAA GACCCACACG ATGGAGGGTA AACTTCATGA TCCAGAAGGC 60  
ATGGGAATTAA TTCCAAGAAT AGTGCAGAT ATTCTTAATT ATATTTACTC CATGGATGAA 120  
AATTGGAAT TTCTATATTAA GGTTTCATAT TTGAAATAT ATTGGATAA GATAAGGGAC 180  
TTGTTAGATG TTCAAAAGAC TAACCTTTCA GTCCATGAAG ACACAAACCG TGTCCCTAT 240  
GTAAAGGGT GCACAGAACG TTTCCGTGT AGTCCAGATG AAGTCATGGA TACCATAGAT 300  
GAAGGGAAAT CCAACAGAGA TGTCGGCAGTT ACAAAATGAA ATGAACATAG CTCTAGGAGC 360  
CACAGCATTAT TTCTTATTAA TGTAAAACAA GAGAATACAC AAACGGAACA GAAACTCAGT 420  
GGAAAGCTTT ATCTGGTGA TTTAGCTGGC AGTGAGAAGG TTAGTAAGAC TGGGGCTGAA 480  
GGTGC1GTGC TGGATGAAAGC TAAGAACATC AAGAAAGTCAC TTTCTGCACCT TGGAAATGTC 540  
ATTCTGCTT TGGCAGAGGG CAGTACCTTATC GTTCCTTATC GAGATAGTAA AATGACCAGA 600  
ATTCTCAAG ATTCAATTAGG TGGCAACTGT AGGACCACTA TTGTCATATG CTGCTCTCCA 660  
TCATCAACA ATGAGTCTGA GACAAAGTCA ACACCTCCTCT TTGGTCAAAG GGCCAAAACA 720  
ATTAAGAACAA CAGTCTGTGTT CAATGTAGAG TTAACGTGCAG AGCAGTGGAA AAAGAAGTAT 780

FIG. 12B

GAAAAAGAAA AGGAAAAAAA TAAGACTCTA CGGAACACTA TTCAGTGGCT GGAAAACGAG 840  
CTAAACCCTT GGCGTAAACGG GGAGGACAGTG CCTATTGATG AGCAGTTGA CAAAGAGAAA 900  
GCTAATTGGA AGGCCTTCAC AGCGGATAAA GATACTGCTA TTACCCAGTGA TAAACCAGCT 960  
GCTGCAGTCG GAATGGCTGG TAGTTTACCG GATGCTGAAA GAAGAAAGTG TGAAGAAGAA 1020  
CTTGCTAAAT TGTATAAACAA GCTTGATGAC AAGGATGAAAG AGATTAACCA ACAAAAGCCAA 1080  
TTGGTAGAGA ATTGAAAGAC ACAAAATGCTG GATCAGGAAG AGCTTCTGGC ATCAAACCGA 1140  
AGGGATCAAG ATAATATGCA AGCTGAACGT AATCGCCTCC AAGCAGAAA TGATGCTTCT 1200  
AAAGAAGAAG TCAAAGAAGT TTTACAGGCC TTAGAGGAAC TGGCTGTTAA TTATGATCAG 1260  
AAGTCTCAGG AAGTGAAGA CAAAACAAG GAATATGAAT TGCTTAGTGA TGAATTGAAT 1320  
CAAAATCTG CAACTTTCAGC AAGTATTGAT GCTGAGCTTC AGAAAGCTGAA GGAATGACC 1380  
AACCCACAGA AGAAACGAGC AGCTGAATG ATGGCATCAT TATTAAGA CCTTGAGAA 1440  
ATAGGAATTG CTGTGGGAA TAACGATGTT AAGGAAACCAAG AAGGAACTGG TATGATAGAT 1500  
GAAGGAGTTA CTGTGCAAG ACTCTACAT AGCAGAAATGA AATCAGAAGT AAAGACCATG 1560

FIG. 12C

|  |      |
|--|------|
| GTGAAACAGCT GCAAACAGCT AGAAAGCACC                                  | 1620 |
| CAGACTGAGA GCAACAAAAA AATGGAAGAA                                   |      |
| AATGAGAAAG AGTTAGCAGC ATGCCAGCTT CGGATCTCCC AACATGAAGC CAAATCAAG   | 1680 |
| TCACTGACTG AGTACCTTCA GAATGTAGAA CAAAGAAGA GGCAGCTGGA GGAATCTGTT   | 1740 |
| GATTCCCTTG GTGAGGGCT AGTCCAACTC CGAGCACAAAG AGAAAGTCCA TGAATGGAA   | 1800 |
| AAAGAGCACT TGAACAAAGGT TCAGACTGCA AATGAAGTCA AGCAAGCTGT TGAGCAGCAG | 1860 |
| ATCCAGAGTC ACAGAGAAC CCACCAAAA CAAATCAGTA GCTTGGAGAA TGAAAGTTGAG   | 1920 |
| GCAAAGGAAA AGCTAATCAC TGACCTCCAA GACCAAAACC AGAAAGATGGT GTTGGAGCAG | 1980 |
| GAACGGCTAA GGGTGGAGCA TGAGGGCTG AAGGCTACAG ACCAAGAGAA GAGCAGGAG    | 2040 |
| CTGCATGAGC TCACGGTTAT GCAAGACAGA CGAGAACAAAG CAAGACAAGA CTTGAAGGGT | 2100 |
| TTGGAGGAGA CCGTGGCAA AGAACTTCAG ACTTTACACA ACCTGCGTAA GCTCTTTGTT   | 2160 |
| CAGGACTTGG CTACCCAGGGT GAAAAGAGG CCGAGGGTCAA CTCTGACGAC ACTGGGGCA  | 2200 |
| GTGCTGCACA GAAGCAGAAA ATCTCCTTC TTGAAACAA CCTTGAACAG CTCACCAAAG    | 2280 |
| TGCACAAAGCA GTTGGTACGT GATAATGCAG ATCTTCGCTG TGAGCTTCCT AAGTTAGAGA | 2340 |
| AACGGCTTAG AGCTACTGCA GAAAGAGTGA AAGCTTGGA GTCAGCCCCG              | 2389 |

FIG. 13A

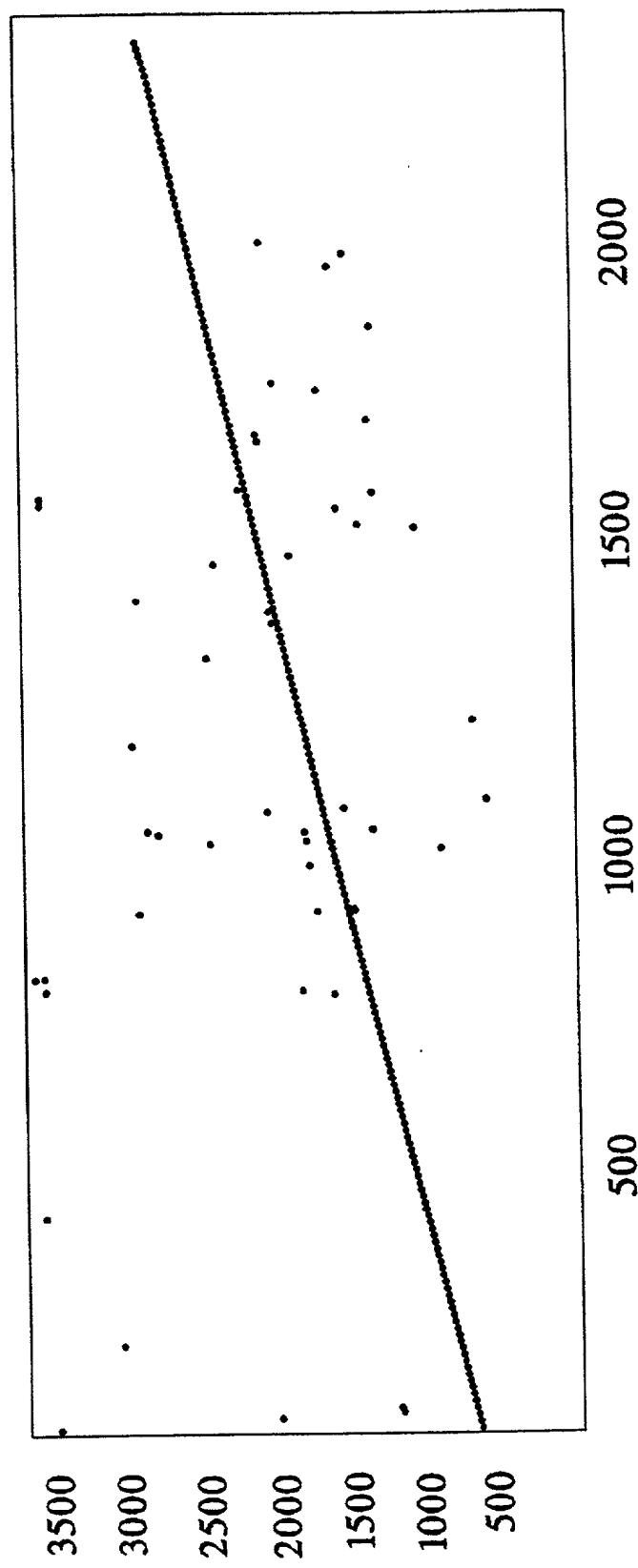


FIG. 13B

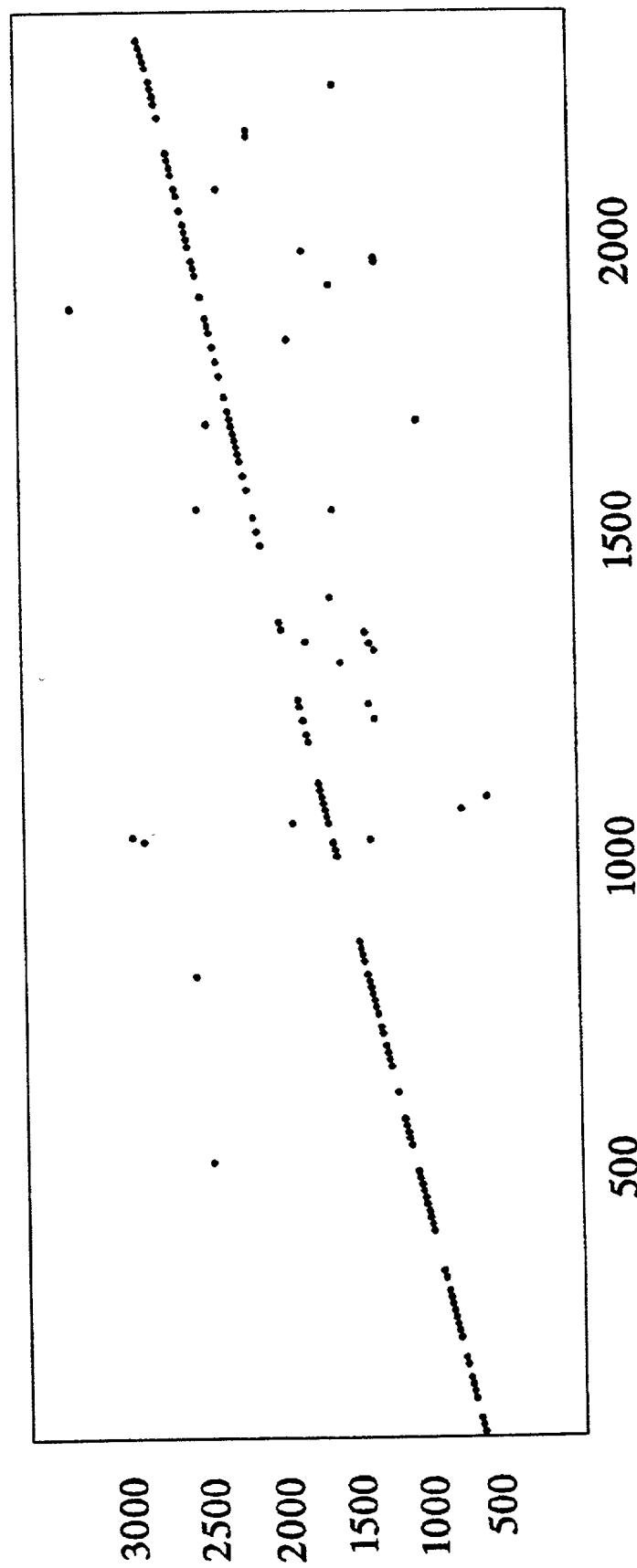


FIG. 13C

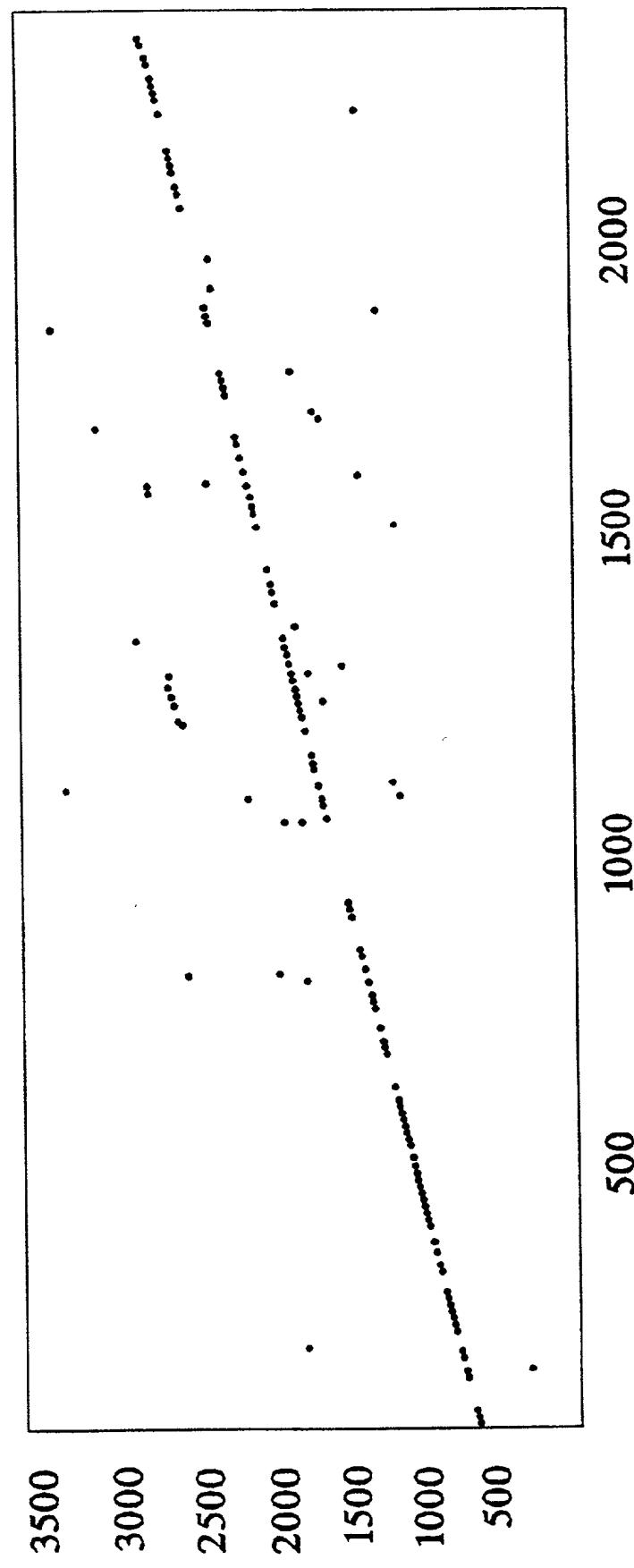
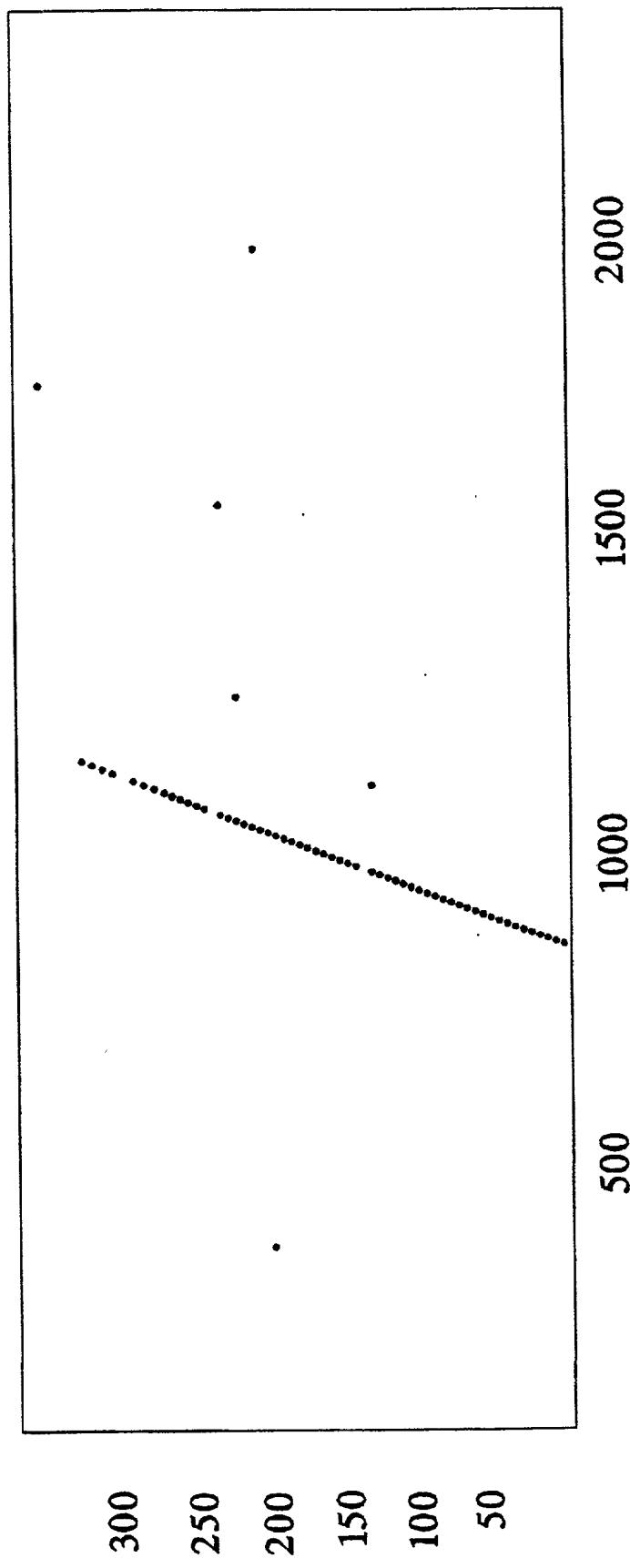


FIG. 13D



**FIG. 14A**

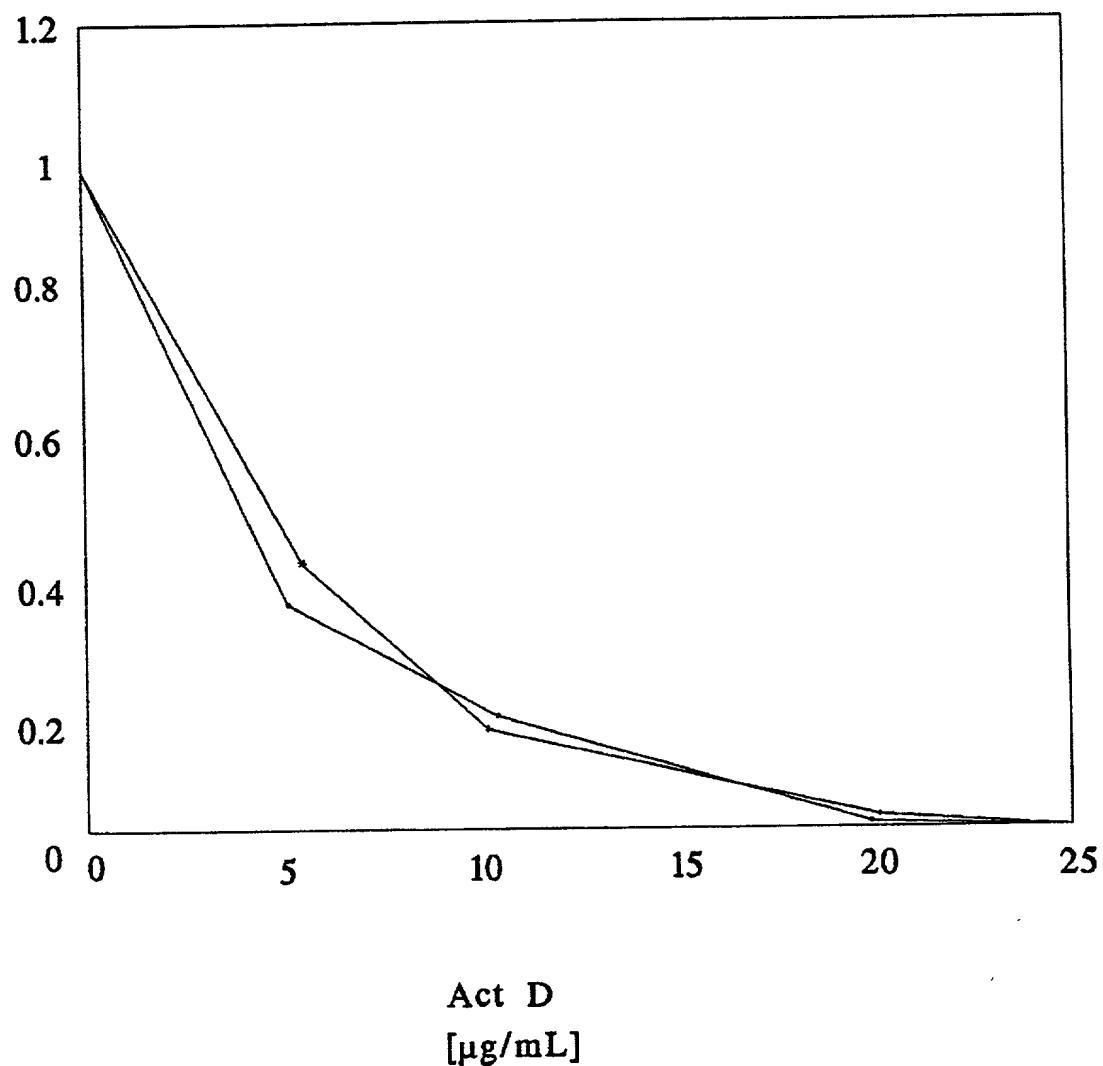
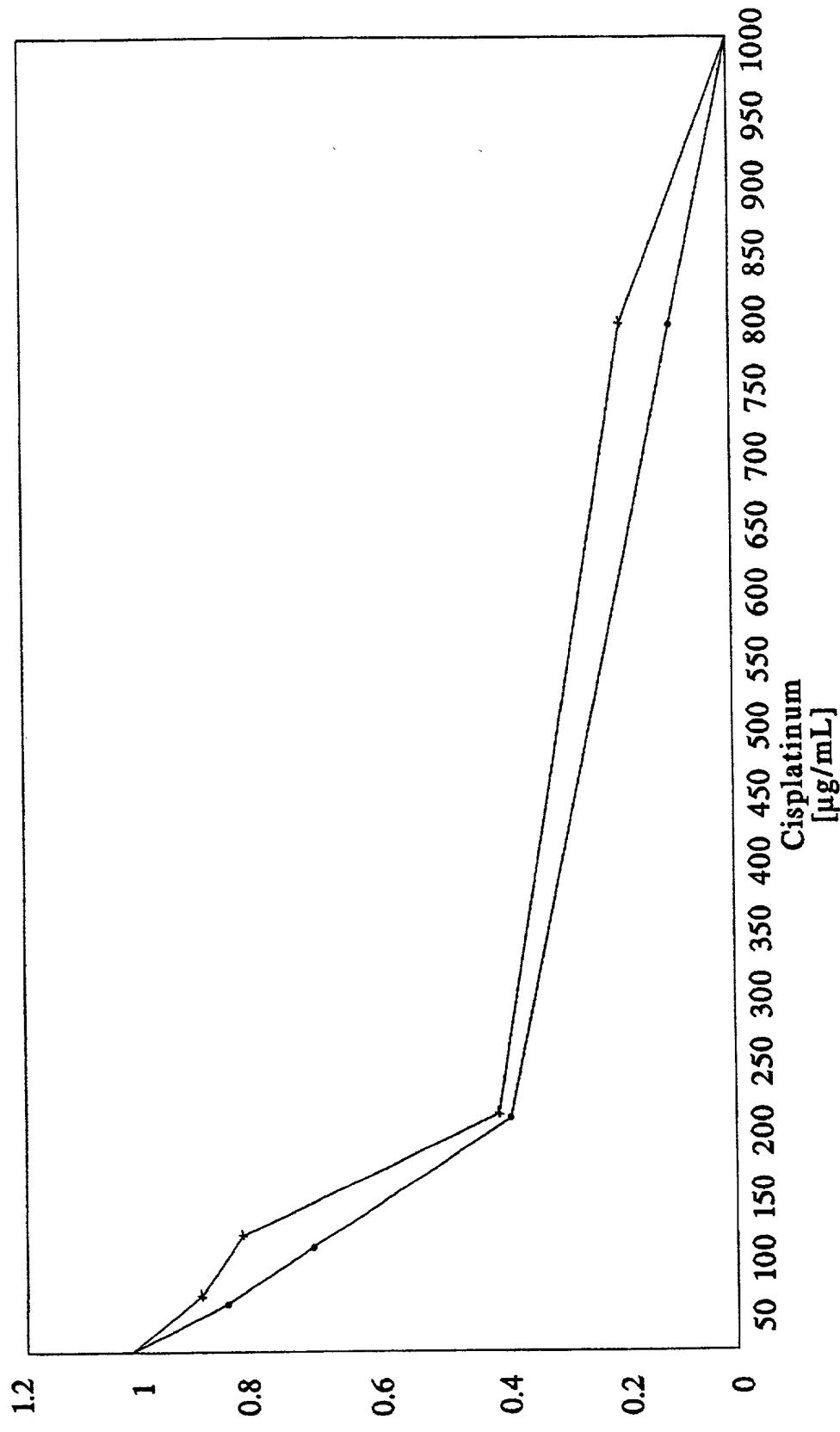
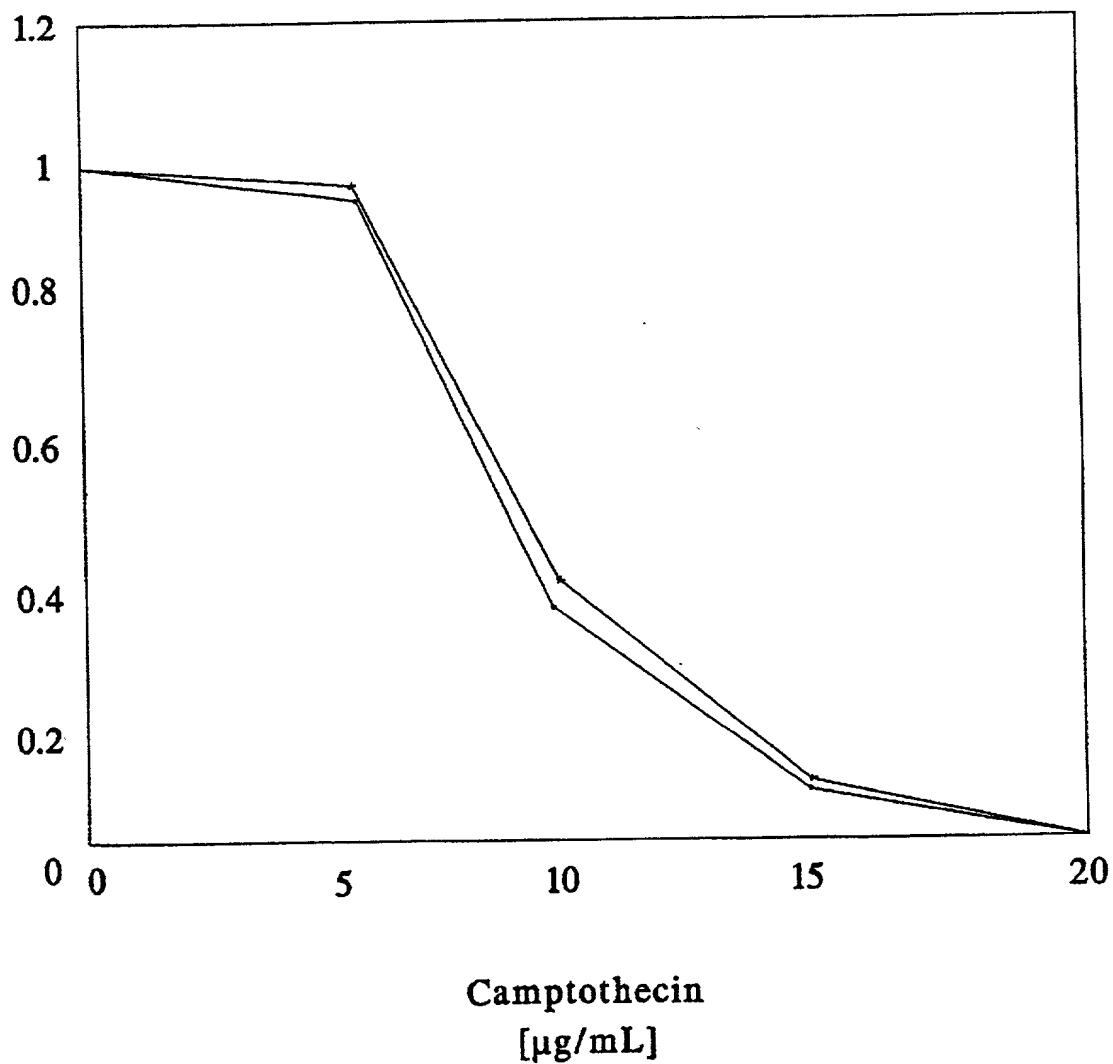


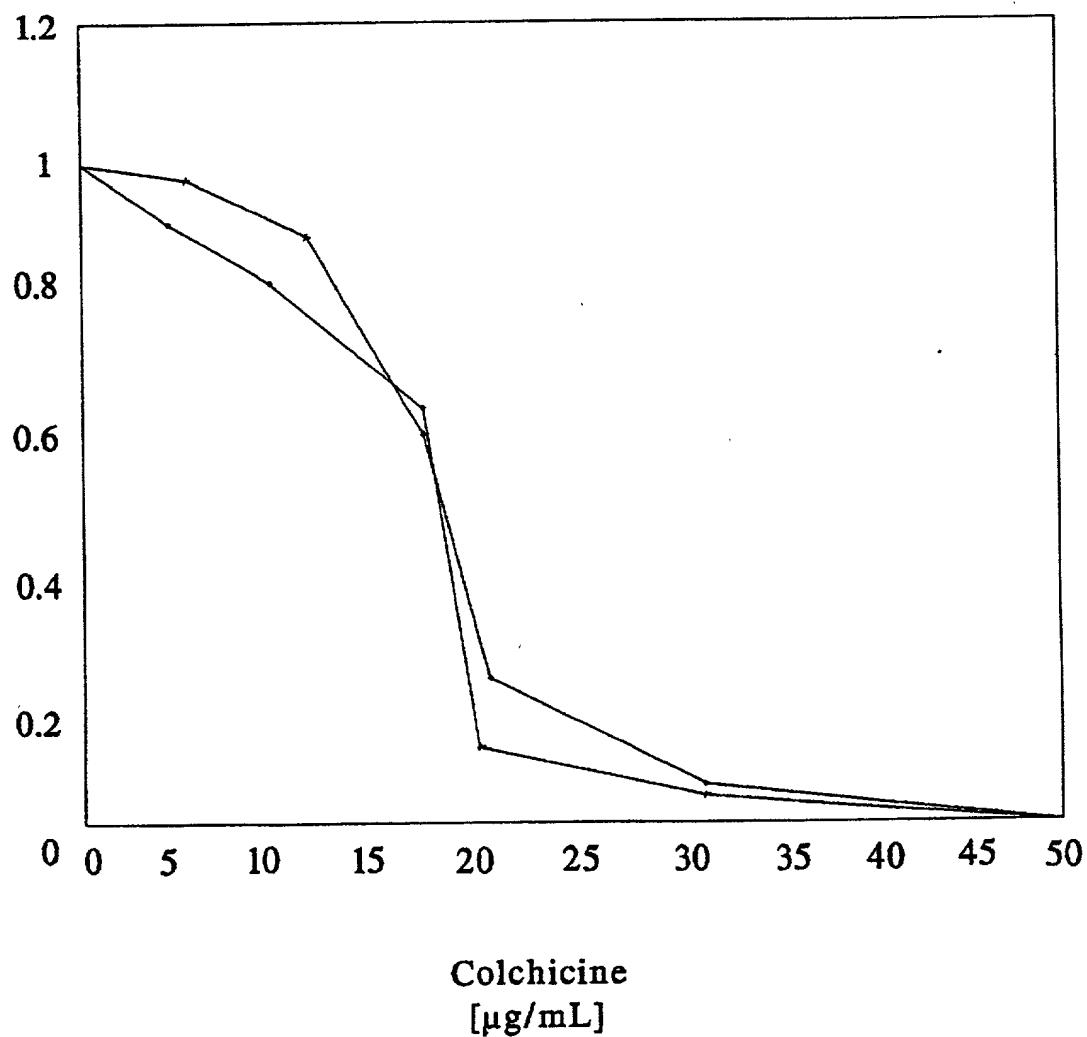
FIG. 14B



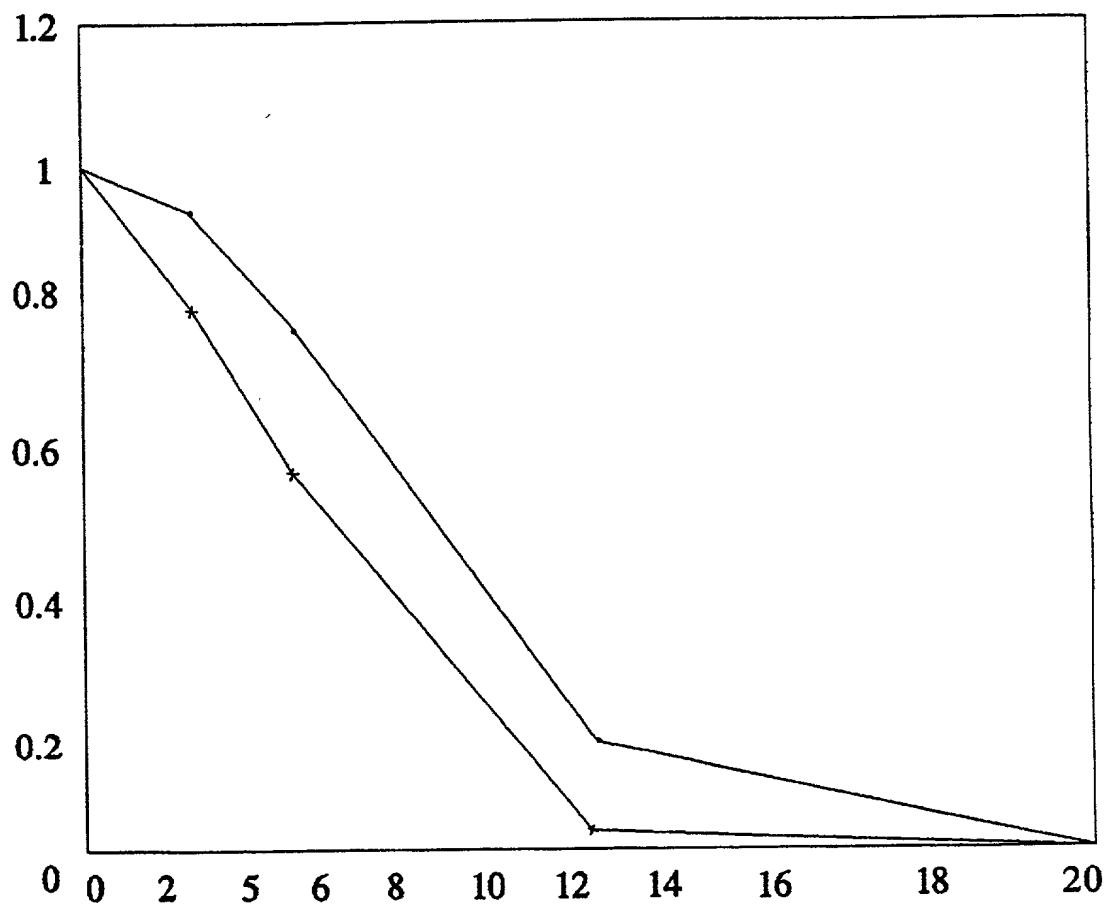
***FIG. 14C***



***FIG. 14D***



***FIG. 14E***



Adriamycin  
[ $\mu\text{g/mL}$ ]

***FIG. 14F***

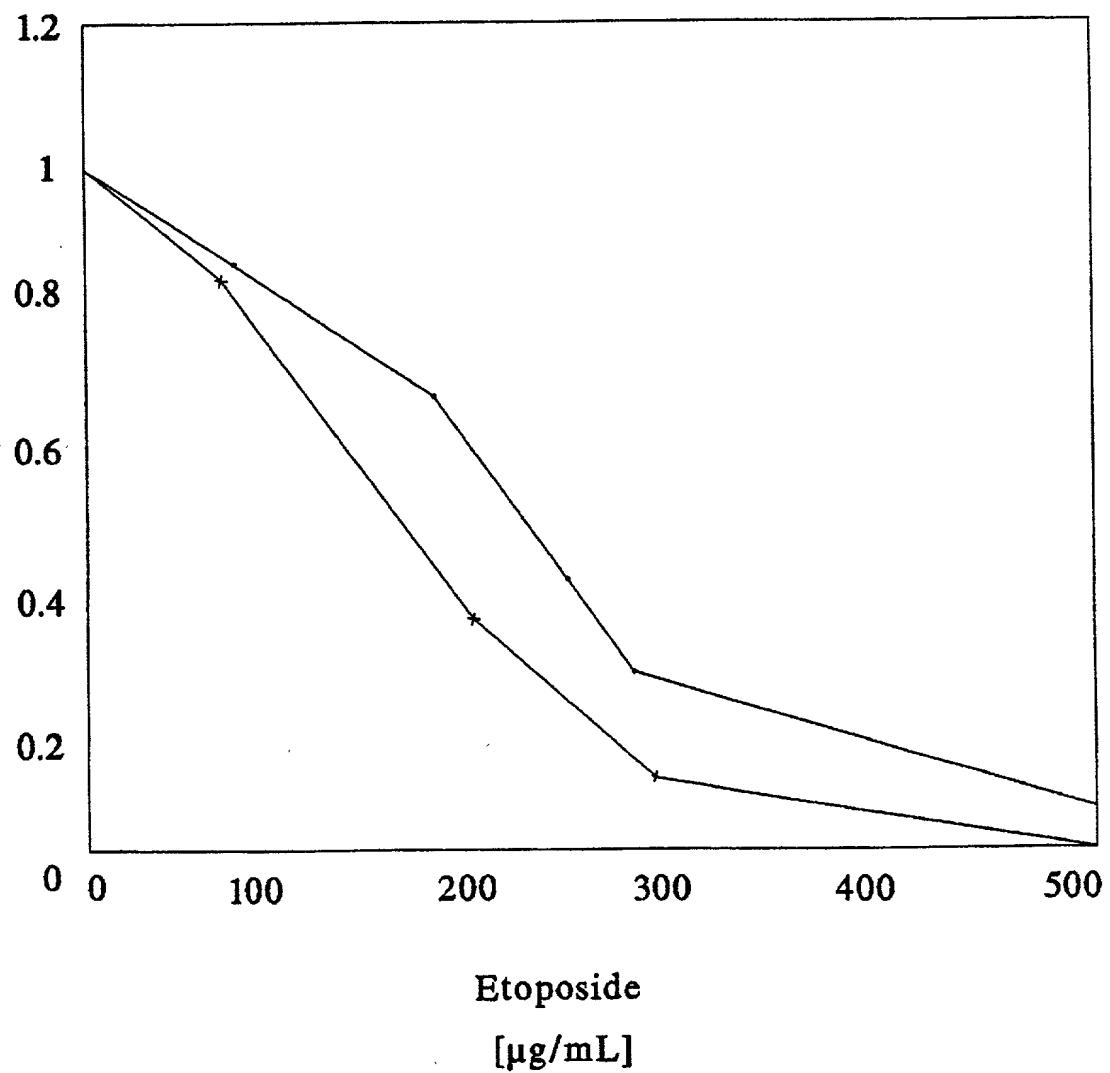
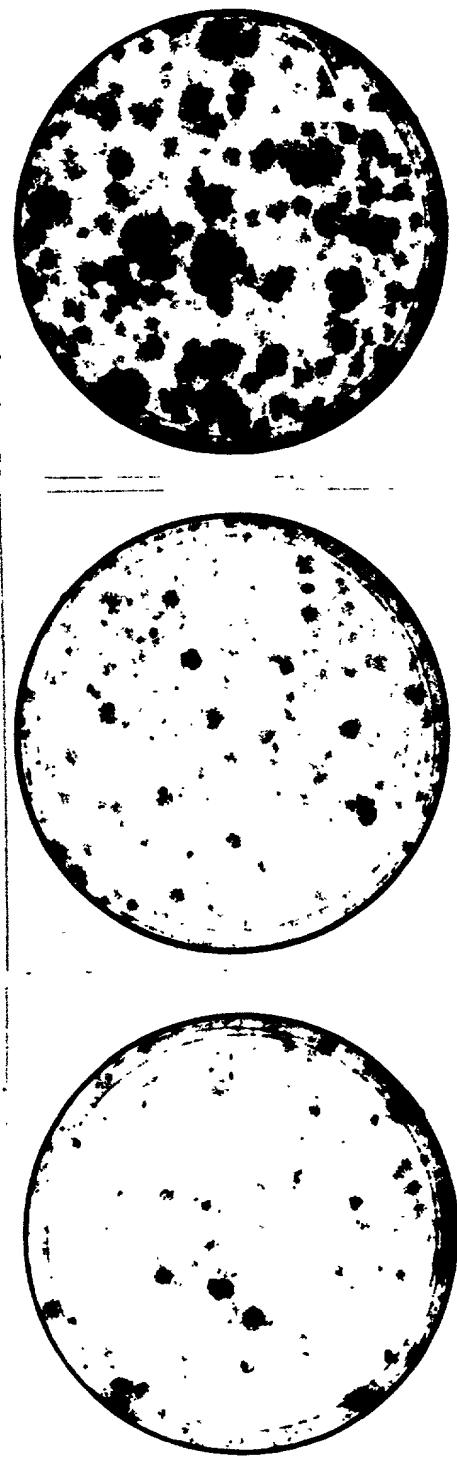


Fig 15



no infection

insert-free  
vector

anti-khcs GSE

Figure 16

